

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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| Applicant's or agent's file reference 2229 | FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) | |
| International application No. PCT/IL02/00665 | International filing date (<i>day/month/year</i>) 13 AUGUST 2002 | Priority date (<i>day/month/year</i>) 14 AUGUST 2001 |
| International Patent Classification (IPC) or national classification and IPC IPC(7): G06F 12/16 and US Cl.: 711/162 | | |
| Applicant STORAGE NETWORKING TECHNOLOGIES | | |

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets.
- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of report with regard to novelty, inventive step or industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☒ Certain observations on the international application

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| Date of submission of the demand 29 JANUARY 2003 | Date of completion of this report 24 SEPTEMBER 2003 |
| Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 | Authorized officer HIEP T. NGUYEN <i>Perry Hanoal</i> |
| Facsimile No. (703) 305-3230 | Telephone No. (703) 305-3822 |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IL02/00665

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed
- ☒ the description:
pages 1-20 , as originally filed
pages NONE , filed with the demand
pages NONE , filed with the letter of _____
- ☒ the claims:
pages 21-30 , as originally filed
pages NONE , as amended (together with any statement) under Article 19
pages NONE , filed with the demand
pages NONE , filed with the letter of _____
- ☒ the drawings:
pages 1-8 , as originally filed
pages NONE , filed with the demand
pages NONE , filed with the letter of _____
- ☒ the sequence listing part of the description:
pages NONE , as originally filed
pages NONE , filed with the demand
pages NONE , filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.
These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE
- ☒ the claims, Nos. None
- ☒ the drawings, sheets/fig NONE

5. ☐ This report has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

**Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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International application No.

PCT/IL02/00665

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. statement**

| | | | |
|-------------------------------|--------|-------------|-----|
| Novelty (N) | Claims | <u>1-48</u> | YES |
| | Claims | <u>NONE</u> | NO |
| Inventive Step (IS) | Claims | <u>1-48</u> | YES |
| | Claims | <u>NONE</u> | NO |
| Industrial Applicability (IA) | Claims | <u>1-48</u> | YES |
| | Claims | <u>NONE</u> | NO |

2. citations and explanations (Rule 70.7)

Claims 1-48 meet the criteria set out in PCT Article 33(2)-(4), because, after a careful review of the prior art of record, the prior art does not teach or fairly suggest the claimed limitations of mirroring functionality which run in both first and second processing facility to freeze the selected data object and then copy the frozen selected data object into the remote storage device, wherein the selected data object is allowed to be used and updated during the running of the mirroring functionality, and wherein the mirroring functionality is being run by default command for copying updates to the selected data object, unless receiving command for mirroring break, whereby the selected data object residing in the local storage device is copied and sequentially updated into the remote storage device, as recited in the independent claims 1 and 25.

____ NEW CITATIONS _____
NONE

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VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

In the specification, page 17, line 6, "a least" should be replaced with —at least—.

In claim 1, line 1, "a" in front of "at least" should be deleted. In claim 25, line 1, "a" in front of "at least" should be deleted